Beam Power Tube

Novar Type

For Horizontal-Deflection-Amplifier Service in Low-B+, Black-and-White TV Receivers

ELECTRICAL CHARACTERISTICS - Bogey Values								
Heater Voltage, ac or dc.	$\mathbf{E_{h}}$		6.3			V		
Heater Current	$\mathbf{I_h}$		1.6			Α		
Direct Interelectrode Capacitances:								
Grid No.1 to plate	c _{g1-1}	p	0.7			pF		
Input: G1 to (K,G3,G2,H) Output: P to (K,G3,G2,H)	c _i		$\frac{22.0}{9.0}$			pF pF		
For the following characteristic	-	Cond		hali	01/11	þΓ		
Amplification Factor (Triode Connection)		-	-	4.7	- -			
Plate Resistance (Approx.)	. r _n	_	_	_	18	$\mathbf{k}\Omega$		
Transconductance	-	-	_	_	7000	μmho		
DC Plate Current		_	470°	_	45	mA		
DC Grid-No.2 Current	~	-	32 c	-	1.5	mA		
Cutoff DC Grid-No.1 Voltage for Ib = 1 mA	-	յ - 75	-	-	-32	v		
Conditions:		•						
Heater Voltage	. E _h	В	ogey	valu	.e	V		
Peak Positive-Pulse Plate Voltaged	. e _{bm}	6500	-	-	_	v		
DC Plate Voltage	· · E _b	-	50	125	130	V		
Grid No.3 Connected to cathode at socket								
DC Grid-No.2 Voltage	E_{c2}	125	125	125	125	V		
DC Grid-No.1 Voltage	E_{c1}	-	0	-20	-20	V		
MECHANICAL CHARACTERIS								
Maximum Overall Length					79.50	mm)		
Maximum Seated Length		2	.750 i	n (6	39.85	mm)		
Maximum Diameter		1	.562 i	n (3	39.67	mm)		
Envelope	JF	JEDE 2DEC	C Des	signa gnat	ation ion 12	T 12 2-96		
Base Exhaust T	Large- ip (JEI	-Butto DEC D	n Nov Design	zar 9 natio	-Pin n E9	with -88)		
Terminal Connections (See TERMINAL DIAGRAM). Type of Cathode		C	oated	Uni	poten	tial		
Operating Position						Ally		

			· ·			
MAXIMUM RATINGS — Design Maximum Values f						
For operation as a Horizontal-Deflection-Amplifier Tube in a 525-line, 30-frame system						
DC Plate Supply Voltage E _{bb}	770	V				
Peak Positive-Pulse Plate Voltage ⁹ e Peak Negative-Pulse Plate bm	6500	v				
Voltageet	1500	v				
DC Grid-No.3 Voltageh Ec3	75	V	1			
DC Grid-No.2(Screen-Grid) VoltageE _{c2}	220	v				
DC Grid-No. 1 (Control-Grid) Voltage:		ř				
Negative-bias valueE _{c1}	55	V				
Peak Negative-Pulse Grid No.1 Voltageeclm	330	V				
Heater-Cathode Voltage: Peak	±200	v				
Average E _{hk(av)}	100	V				
	.7 to 6.9	v				
Cathode Current:						
Peak i _{km}	950	V				
Average $I_{k(av)}$	2 75	V				
Grid-No.2 Input P _{g2}	3.5	V				
Plate Dissipation ^k P _b Envelope Temperature (at hottest	17	V				
point on envelope surface) $T_{ m E}$	240	$^{\mathrm{o}}\mathrm{C}$				
MAXIMUM CIRCUIT VALUES Grid-No. 1-Circuit Resistance: Rg1(ckt)						
For grid-No.1-resistor-bias operation 0.47	М	Ω				
For plate-pulsed operation	141	3 2				
(horizontal-deflection circuits only)	м	Ω				
Measured without external shield in accordance with the						
b current issue of EIA Standard RS-191. With Grid No.2 connected to plate at socket.						
This value can be measured by a method involving a re-						
current waveform such that the Maximum Ratings of the tube will not be exceeded.						
Under pulse-duration condition specified in Footnote 9.						
e Designed to mate with "Novar 9-contact" Socket generally						
available from your local RCA Distributor.						
As defined in the current issue of EIA Standard RS-239. This rating is applicable where the duration of the voltage						
pulse does not exceed 15% of one horizontal scanning						
cycle. In a 525-line, 30-frame system, 15% of one hori-						
zontal scanning cycle is 10 μs. h In horizontal-deflection-amplifier service, a positive volt-						
age may be applied to grid No.3 to reduce interference						
age may be applied to grid 140.0 to reduce.	mrerierell					

from "snivets" which may occur in both vhf and uhf television receivers. A typical operating value for this voltage is 30 V.

k An adequate bias resistor or other means is required to protect the tube in the absence of excitation.

TERMINAL DIAGRAM (Bottom View)

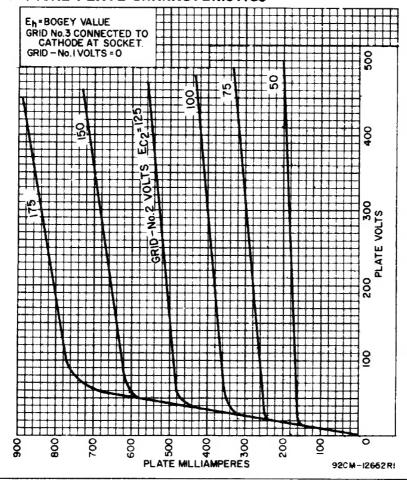
Pin 1 - Grid No.2
Pin 2 - Grid No.1
Pin 3 - Cathode
Pin 4 - Heater
Pin 5 - Heater
Pin 6 - Grid No.3
Pin 7 - Grid No.2
Pin 8 - Do Not Use

Pin 9 - Plate

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TYPICAL PLATE CHARACTERISTICS



TYPICAL CHARACTERISTICS

